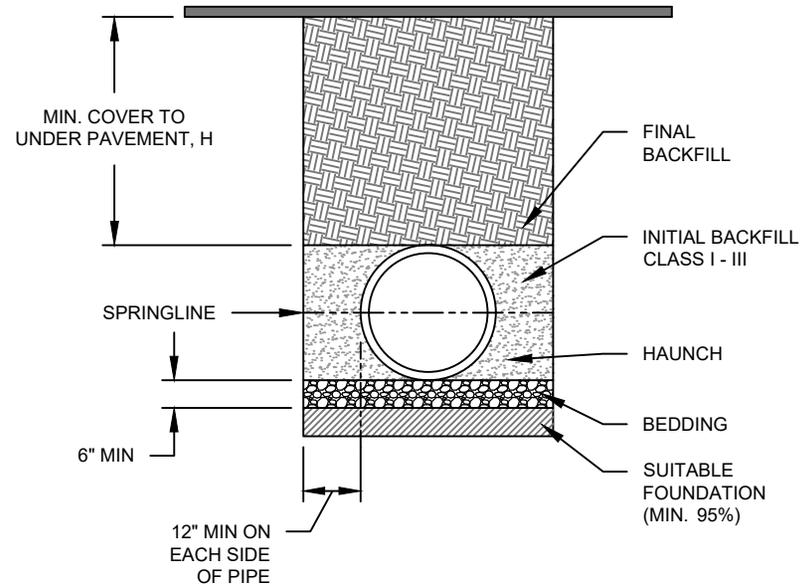


**NOTES:**

- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION, WITH THE EXCEPTION THAT THE INITIAL BACKFILL MAY EXTEND TO THE CROWN OF THE PIPE. SOIL CLASSIFICATIONS ARE PER THE LATEST VERSION OF ASTM D2321. CLASS IVB MATERIALS (MH, CH) AS DEFINED IN PREVIOUS VERSIONS OF ASTM D2321 ARE NOT APPROPRIATE BACKFILL MATERIALS.
- MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
- FOUNDATION:** WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEERING DIRECTOR AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEERING DIRECTOR. AS AN ALTERNATIVE AND AT THE DISCRETION THE ENGINEERING DIRECTOR, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- BEDDING:** SUITABLE MATERIAL SHALL BE CLASS I AND II. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEERING DIRECTOR. COMPACTION SHALL BE PERFORMED TO AN EFFORT TO ENSURE A STABLE FOUNDATION OR OTHERWISE NOTED BY THE ENGINEERING DIRECTOR. UNLESS OTHERWISE NOTED BY THE ENGINEERING DIRECTOR, MINIMUM BEDDING THICKNESS SHALL BE 6" FOR ALL PIPES. THE MIDDLE 1/3 BENEATH THE PIPE INVERT SHALL BE LOOSELY PLACED.
- INITIAL BACKFILL:** SUITABLE MATERIAL SHALL BE ASTM CLASS I, II, AND III IN THE PIPE ZONE EXTENDING TO THE CROWN OF THE PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEERING DIRECTOR. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
- MINIMUM COVER:** MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 24" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. UNLESS APPROVED BY ENGINEERING DIRECTOR, ALL CLASSES SHALL BE USED FOR FINAL BACKFILL AT MINIMUM COVER OF 24" WITH COMPACTION AT 95%.
- FOLLOWING THE INSTALLATION OF UTILITIES AND BEFORE THE FINAL PAVEMENT LAYER IS PLACED, ALL PIPES MUST BE CLEANED, THEN ASTM F1417 OR CCTV INSPECTIONS MUST BE PERFORMED. DEFLECTION TESTING FOR STORM MAY BE REQUIRED AT THE DISCRETION OF THE ENGINEER WHEN INSPECTIONS INDICATE ANOMALIES SUGGESTING DEFLECTION. TESTING FOR DEFLECTION, IF REQUIRED, SHALL BE CONDUCTED BY THE CONTRACTOR AT THEIR EXPENSE USING A MANDREL OR GO-NO-GO DEVICE BASED ON FITTING TYPE. MANDREL SIZE SHALL BE CLEARLY LABELED AND SIZED TO PROVIDE A DIAMETER OF AT LEAST 95% OF ALLOWABLE MINIMUM INSIDE DIAMETER PER ASTM D2881.
- POLYPROPYLENE PIPE SHALL NOT BE INSTALLED INSIDE COMMERCIAL STREETS ROW.

**POLYPROPYLENE INSTALLATION DETAIL**



**TOWN OF INDIAN TRAIL  
STANDARD DETAIL**

**POLYPROPYLENE PIPE INSTALLATION**

REVISIONS	Scale
	Not To Scale
	Revision Date
	03/2024
	Detail #
	SW_15.01